	Application No.	Applicant(s)	<u>v</u>
Notice of Allowability	10/784,899	LIU ET AL.	
	Examiner	Art Unit	
	Brian K. Talbot	1762	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to after-final amendment	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is so and MPEP 1308.	this application. If not included nication will be mailed in due course.	THIS initiative
_	t med 1/3 1/00.		
2. The allowed claim(s) is/are <u>1-8,12,14,15,17 and 110</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority unalled all blooms. a) ☐ All blooms of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	been received.		
Copies of the certified copies of the priority do	cuments have been received	in this national stage application from	ı the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:	.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requiremer	nts
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	MINER'S AMENDMENT or NOTICE (declaration is deficient.)F
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on th he header according to 37 CFF	e drawings in the front (not the back) of R 1.121(d).	;
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s)			
1. Notice of References Cited (PTO-892)		ormal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./N	mmary (PTO-413), ⁄lail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	8), 7. 🛭 Examiner's A	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other		

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1. The after-final amendment filed 1/31/06 has been considered and entered. Claims 9,13 and 16 have been canceled. Claims 1-8,10-12,14-15 and 17 remain in the application.

- 2. In light of the amendment filed 1/31/06, the 35 USC 103 rejections have been withdrawn.
- An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Seidlick on 2/21/06.

The application has been amended as follows:

In claim 1, line 12, the term "magnesium" has been inserted between the term "the" and "vapor".

In claim 17, line 3, the phrase -- having a surface consisting essentially of silicon – has been inserted between the terms "substrate" and "into".

Allowable Subject Matter

4. Claims 1-8,10-12,14,15 and 17 are allowed.

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Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or fairly suggest a method of forming a thin film magnesium boride on a silicon substrate whereby the pressure of magnesium vapor is maintained within the following equation:

$$Log(P) = -9549.5/T + 9.1$$
; and $Log(P) = -10142/T + 8.562$,

where P represents pressure in units of Torr and T represents temperature in Kelvin (K).

This forms a magnesium boride film substantially free of magnesium-silicon contaminates between the surface consisting essentially of silicon and the magnesium boride.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B KTALLY 2/21/06

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